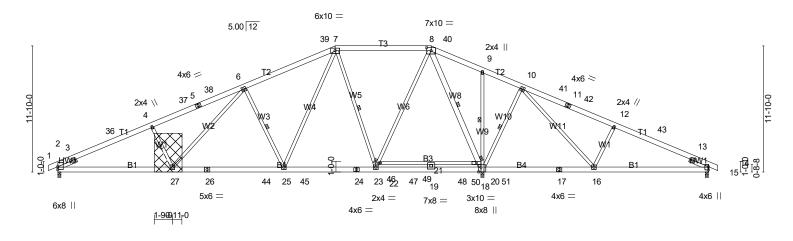


Scale = 1:108.0



1	10-8-14	21-2-4	29-9-12	35-0-0	39-9-12	50-3-2	61-0-0	J
Г	10-8-14	10-5-6	8-7-8	5-2-4	4-9-12	10-5-6	10-8-14	1

## **REPAIR(S) REQUIRED**

Plate Offsets	(X,Y) [8:0-5	5-0,0-3-7], [18:0-5-4,0-2-8]						
LOADING (ps TCLL (roof) Snow (Pf) TCDL BCLL BCDL	sf) 20.0 20.0 10.0 0.0 * 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2021/TPI2014	<b>CSI.</b> TC 0.85 BC 0.87 WB 0.93 Matrix-MSH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) l/def -0.33 25-27 >999 -0.50 25-27 >957 0.06 18 n/a	9 240 7 180	PLATES MT20 Weight: 480 lb	<b>GRIP</b> 244/190 FT = 20%
	2x6 SP No.2 2x6 SP No.2 B3: 2x4 SP 2x4 SP No.3	2 *Except* No.2, B2: 2x6 SP No.1		BRACING- TOP CHORD BOT CHORD WEBS		lly applied or 20-22	tly applied or 2-7-0 oc 6-0-0 oc bracing. Exc 7-23, 8-20, 10-18, 9-1	ept:
SLIDER	W8: 2x6 SP		1-11-0	WEBS	MiTek recomme	nds that Stabi	lizers and required cro ion, in accordance with	oss bracing
REACTIONS.	Max Horz 2 Max Uplift2	=1429/0-3-8 (min. 0-1-14), 14=448/0 =-167(LC 15) =-212(LC 14), 14=-148(LC 15), 18=- =1593(LC 39), 14=572(LC 55), 18=4	144(LC 11)	3298/0-3-8 (min.		-	WITH CARO	
FORCES. (II TOP CHORD BOT CHORD	2-3=-984/0 5-38=-270 8-40=0/15 11-42=-25	np./Max. Ten All forces 250 (lb) or la 0, 3-36=-2959/350, 4-36=-2867/366, 7/372, 6-38=-2604/388, 6-39=-1877/ 45, 9-40=0/1475, 9-10=-21/1508, 10- 8/426, 12-42=-360/394, 12-43=-404/ /2646, 26-27=-227/2039, 26-44=-227	4-37=-2803/367, 5-37: 316, 7-39=-1631/318, 41=-228/556, 11-41=- 377, 13-43=-554/330,	=-2723/371, 7-8=-774/211, ·252/438, 13-14=-402/0	_		SEAL 029729	

24-45=-1/1105, 24-46=-1/1105, 23-46=-1/1105, 23-47=-24/423, 19-47=-24/423, 19-48=-24/423, 18-48=-24/423, 22-49=-326/9, 21-49=-326/9, 21-50=-326/9, 20-50=-326/9, 18-51=-953/153, 17-51=-953/153, 16-17=-953/153, 14-16=-304/457 WEBS 4-27=-418/230, 6-27=-131/726, 6-25=-1190/323, 7-25=-224/1483, 7-23=-1264/251, 22-23=-117/1831, 8-22=-96/2043, 8-20=-2957/200, 18-20=-3174/181, 10-18=-1056/270, 10-16=-162/1061, 12-16=-602/250, 19-21=-323/0, 9-18=-348/96

## NOTES-

1) Repair Condition: diagonal web 4-27 has damaged section 2-0-0 long starting 0-0-0 above joint 27.

2) Replace damaged section cut clean with same size and grade of material. Attach 44"H X 31"W X 7/16" OSB (APA Rated Sheathing 24/16 Exposure 1) gusset to both sides of truss at joint 27 with 10d (0.131"x3") nails from each face, driven through both sheets of plywood and clinched. Connected together as follows: 2x6 - 2 rows 1-0-0 o.c., 2x4 - 2 rows 0-6-0 o.c. Minimum 0-3-0 end distance. 3) Repairs specified by this program will be subject to review and change.

4) Unbalanced roof live loads have been considered for this design.

5) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 5-2-11, Interior(1) 5-2-11 to 17-4-8, Exterior(2R) 17-4-8 to 43-6-6, Interior(1) 43-6-6 to 55-9-5, Exterior(2E) 55-9-5 to 61-10-8 zone; cantilever left and right exposed; c-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

6) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10 Continued on page 2



Job	Truss	Truss Type	Qty	Ply	LOT 28 PROVIDENCE CREEK   29 COTTONSEED LANE FUQUAY-VARINA,
23-7721-R01	R02ARP1	Piggyback Base	6	1	Job Reference (optional)
Atlantic Building Components, Moncks Corner, South Carolina				8.	430 s Feb 12 2021 MiTek Industries, Inc. Wed Jan 31 13:34:01 2024 Page 2

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Jan 31 13:34:01 2024 Page 2 ID:av29u vm2cwLtXF0Wc5ybwyV6X0-2QXDDSnBoyt02pN?hnmX2Qy4zf93HM0kFnliNUzpgra

## NOTES-

7) Unbalanced snow loads have been considered for this design.

8) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads. 9) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the

permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.

10) Provide adequate drainage to prevent water ponding.

11) All plates are 5x5 MT20 unless otherwise indicated.

12) This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and 13) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

14) Bearing at joint(s) 18 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

- 15) Provide metal plate or equivalent at bearing(s) 18 to support reaction shown.
- 16) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 212 lb uplift at joint 2, 148 lb uplift at joint 14 and 144 lb uplift at joint 18.

LOAD CASE(S) Standard